

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/NZ2004/000222

## A. CLASSIFICATION OF SUBJECT MATTER

Int. Cl. 7: G01N 21/05, 33/577

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

WPIDS, MEDLINE, CA; KEYWORDS: COMPETITIVE, LINKER, MASS, NANOPARTICLE, PARTICLE, PLASMON RESONANCE, BIOSENSOR, IMMUNOSENSOR

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 6342349 B (VIRTANEN J.) 29 January 2002 Abstract, Figures 34A-35C	1-18
Y	WO 2002/092631 A (HORTICULTURE & FOOD RESEARCH INST. OF NZ LTD) 21 November 2002 Abstract, p12 lines 12-26, p19 lines 1-7, figures 2, 11 and claims	1-18
P, Y	WO 2004/042403 A (ROCHE DIAGNOSTICS GMBH et al) 21 May 2004 Abstract, Figure 11, Claims	1-18

☒ Further documents are listed in the continuation of Box C☒ See patent family annex

\* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&amp;" document member of the same patent family

Date of the actual completion of the international search  
22 November 2004

Date of mailing of the international search report

10 DEC.2004

Name and mailing address of the ISA/A.U

AUSTRALIAN PATENT OFFICE  
PO BOX 200, WODEN ACT 2606, AUSTRALIA  
E-mail address: pct@ipaaustralia.gov.au  
Facsimile No. (02) 6285 3929

Authorized officer

ROSS OSBORNE

Telephone No : (02) 6283 2404

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/NZ2004/000222

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	Mullett W. et al, "Surface plasmon resonance-based immunoassays" Methods (2000) Vol 22 p77-91. Whole document	
A	Wu Y. et al, "Evaluation of progesterone-ovalbumin conjugates with different length linkers in enzyme-linked immunosorbent assay and surface plasmon resonance-based immunoassay" Steroids (2002) Vol 67 p565-572 Whole document	
A	Kubitschko S. et al, "Sensitivity enhancement of optical immunosensors with nanoparticles" Anal. Biochem. (1997) Vol 253 p112-122 Whole document	

## INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/NZ2004/000222

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report		Patent Family Member			
US 6342349		AU 41602/02	CA 2468245	EP 1480772	
		HU 0103577	IL 151635	KR 2000023613	
		NZ 333907			
WO 2002/092631		AU 2002311701	CA 2447032	EP 1404717	
		NZ 511705	US 2004171069		
WO 2004/042403					

Due to data integration issues this family listing may not include 10 digit Australian applications filed since May 2001.

END OF ANNEX